

## Assessment Task 3: In Class Test

Due Date: **Monday 7<sup>th</sup> September 2020**

**Date Distributed: 40 August 2020**

**Task Weighting: 20%**

### Outcomes

- Selects appropriate notations and conventions to communicate mathematical ideas and solutions MA5.2-1WM
- Interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems. MA5.2-2WM
- Constructs arguments to prove and justify results MA5.2-3WM
- Describes and calculates probabilities in multi-step chance experiments MA5.2-17SP
- Uses statistical displays to compare sets of data, and evaluates statistical claims made in the media MA5.1-12SP
- Investigates relationships between two statistical variables, including their relationship over time MA5.2-16SP
- Selects and uses appropriate strategies to solve problems MA5.1-2WM
- Uses quartiles and box plots to compare sets of data, and evaluates sources of data MA5.2-15SP
- Investigates relationships between two statistical variables, including their relationship over time MA5.2-16SP
- Applies trigonometry to solve problems, including problems involving bearings MA5.2-13MG

## ASSESSMENT OUTLINE

### 1. WHAT AREAS OF LEARNING DOES THIS ASSESSMENT ADDRESS?

Your knowledge, skills and understanding in the following areas can be assessed in this examination:

#### MULTI STAGE PROBABILITY

- Calculate simple probability
- Identify complementary events
- Identify relative frequencies
- Calculate the number of outcomes for a multi-stage event (three chance experiments)
- Interpret tables and diagrams including two way tables, tree diagrams and Venn diagrams
- Calculate probabilities where a condition is given

#### BIVARIATE DATA

- Calculate quartiles and interquartile range of a set of data

Use a five number summary to draw a boxplot to represent the data set

- Compare parallel boxplots that represent similar sets of data.
- Identify skewed and symmetric displays including dot plot, histogram, stem and leaf, and boxplot
- Describe the relationship between two variables displayed in a scatter plot and make predictions from the scatter plot.

#### RIGHT ANGLED TRIGONOMETRY

- Identify the hypotenuse, adjacent and opposite sides of a right angled triangle
- Calculate an unknown side using trigonometric ratios (sin, cos, tan) or Pythagoras' Theorem
- Calculate an unknown angle, including angles of elevation and depression
- Interpret three-figure bearings (e.g. 035°, 225°) and compass bearings (e.g. SW)
- Solve practical problems involving bearings
- Solve problems for which a diagram is not provided

## 2. WHY IS THE COMPLETION OF THIS ASSESSMENT IMPORTANT?

- This task will be used by you and your teachers to assess your knowledge and understanding of the outcomes listed on page one that you have been studying in class.
- The marks achieved in this exam will go towards your Semester 2 report.
- This exam is your chance to show what you know and can do in each of the topics listed in the Areas of Learning.
- It will be used to show you where you can improve in the future in preparation for your yearly exam.

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## 3. WHAT STEPS DO I TAKE TO COMPLETE THIS TASK?

### Task Outline

This exam will consist of two sections.

- **Section 1:** 10 multiple choice questions worth one mark each covering a range of the content listed in the Areas of Learning.
- **Section 2:** A mixture of short and long response questions separated into topics worth one mark or more. This section will involve a number of literacy questions requiring you to write a short statement. These questions will be marked with the following symbol:



**Time allocated: 40 minutes in class**

As this is an examination you will need to prepare for this task by:

- Making summary notes of each topic listed above (mind map, flow chart, dot points).
- Accessing practice past papers on Moodle and revision given out in class.
- Regularly completing practice examination questions under timed conditions.
- Seeking teacher assistance on unclear work.
- Ensuring all set work is up to date.
- Completing all My Numeracy exercises on Essential Assessment
- Practice past quizzes and homework tasks on Moodle.

### Details for Submission

For successful completion of this examination you must bring the following equipment.

- Board approved calculator
- Blue or black pen,
- Pencils and eraser for graphs
- A ruler

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## 4. HOW WILL MARKS BE AWARDED TO MEASURE MY LEARNING?

Worked solutions with marking criteria for each question will be provided when the exam is marked and returned. You should ensure that you go through these solutions thoroughly to correct your mistakes and ask your teacher if there is anything you are unsure about.

You will also receive feedback on your examination performance based on the criteria in the marking rubric attached.

# 2020 Literacy Marking Rubric

LITERACY MARKING CRITERIA	Descriptors				
	1	2	3	4	5
<p><b>Vocabulary</b></p> <p>Uses technical vocabulary to explain concepts and/or range of precise and appropriate words for effect</p>	<ul style="list-style-type: none"> <li>- Symbols or drawings</li> </ul>	<ul style="list-style-type: none"> <li>- Only simple and nontechnical words are used.</li> </ul>	<ul style="list-style-type: none"> <li>- Some precise and technical words are used.</li> </ul>	<ul style="list-style-type: none"> <li>- Sustained use of precise and technical words.</li> </ul>	<ul style="list-style-type: none"> <li>-Sustained, consistent and fluent use of precise and technical words.</li> </ul>
<p><b>Punctuation</b></p> <p>Use of correct and appropriate punctuation for effect and to aid in reading of the text</p>	<ul style="list-style-type: none"> <li>- No or minimal evidence of correct sentence punctuation (less than 25%)</li> </ul>	<ul style="list-style-type: none"> <li>- Limited evidence of correct sentence punctuation (at least 25%)</li> </ul>	<ul style="list-style-type: none"> <li>- Some correct sentence level punctuation (at least 50%).</li> </ul>	<ul style="list-style-type: none"> <li>- Mostly correct sentence level punctuation (at least 80%).</li> </ul>	<ul style="list-style-type: none"> <li>-Writing contains accurate use of all applicable punctuation.</li> </ul>
<p><b>Sentences</b></p> <p>Intentionally constructs a variety of sentences to match purpose and audience</p>	<ul style="list-style-type: none"> <li>- No evidence of sentences</li> <li>- Drawings, symbols, a list of words OR text fragments</li> </ul>	<ul style="list-style-type: none"> <li>- At least one sentence is used correctly.</li> </ul>	<ul style="list-style-type: none"> <li>- Some correct formation of sentences. (at least 50%)</li> </ul>	<ul style="list-style-type: none"> <li>- Most sentences (80%) are correct but are largely unsophisticated.</li> </ul>	<ul style="list-style-type: none"> <li>- All sentences are correct including sophisticated sentences.</li> </ul>